

What is claimed is:

1. A CMOS image sensor single chip integrated with a RF transmitter, comprising:
 - a complementary metal oxide semiconductor(CMOS) image sensor, used for detecting an input light as image signal; and
 - a RF transmitter, used for modulating said image signal to RF signal to be transmitted.
2. The CMOS image sensor single chip integrated with a RF transmitter of claim 1, wherein said CMOS sensor comprises:
 - an image sensing array, used for receiving said input light and transferring said input light to sensing voltage;
 - a readout circuit, used for reading said sensing voltage and outputting said sensing voltage as said image signal; and
 - a timing control circuit, used for controlling working timing of said image sensing array and said readout circuit.
3. The CMOS image sensor single chip integrated with a RF transmitter of claim 1, wherein said readout circuit is formed of a column-readout circuit and a row-readout circuit.
4. The CMOS image sensor single chip integrated with a RF transmitter of claim 2, wherein said readout circuit further comprising a pre-amplify unit, used for amplifying

said sensing voltage as said image signal.

5. The CMOS image sensor single chip integrated with a RF transmitter of claim 1, wherein said CMOS image sensor comprises:

5 an image sensing array, used for receiving said input light and transferring said input light to a sensing voltage;

a readout circuit, used for reading said sensing voltage and outputting said sensing voltage as a analog image signal;

10 a timing control circuit, used for controlling working timing of said image sensing array and said readout circuit; and

an analog to digital converter, used for receiving said analog image signal and transferring said analog image
15 signal to said image signal.

6. The CMOS image sensor single chip integrated with a RF transmitter of claim 5, wherein is formed of a column-readout circuit and a row-readout circuit.

7. The CMOS image sensor single chip integrated with a
20 RF transmitter of claim 5, wherein said readout circuit further comprising a pre-amplify unit, used for amplifying said sensing voltage as said analog image signal.

8. The CMOS image sensor single chip integrated with a RF transmitter of claim 1, wherein said CMOS image
25 sensor comprises:

a linear image sensor, used for receiving said input light and transferring said input light to sensing voltage;

a readout circuit, used for reading said sensing voltage and outputting said sensing voltage as said image signal;

5 and

a timing control circuit, used for controlling working timing of said linear image sensor and said readout circuit.

9. The CMOS image sensor single chip integrated with a RF transmitter of claim 8, wherein said readout circuit
10 further comprises a pre-amplify unit, used for amplifying said sensing voltage as said image signal.

10. The CMOS image sensor single chip integrated with a RF transmitter of claim 1, said CMOS image sensor comprises:

15 a linear image sensor, used for receiving said input light and transferring said input light to sensing voltage;

a readout circuit, used for reading said sensing voltage and outputting said sensing voltage as analog image signal;

a timing control circuit, used for controlling working
20 timing of said linear image sensor and said readout circuit;
and

an analog to digital converter, used for receiving said analog image signal and transferring said analog image signal as said image signal.

25 11. The CMOS image sensor single chip integrated with

a RF transmitter of claim 10, said readout circuit further comprises a pre-amplify unit, used for amplifying said sensing voltage as said analog image signal.

12. A CMOS image sensor single chip integrated with a
5 RF transmitter, comprising:

a complementary metal oxide semiconductor(CMOS)
image sensor, used for detecting an input light as digital
image signal;

a signal processing unit, used for processing of said
10 digital image signal and transferring said digital image
signal to application signal; and

a RF transmitter, used for modulating said application
signal to RF signal to be transmitted.

13. The CMOS image sensor single chip integrated with
15 a RF transmitter of claim 12, wherein said CMOS image
sensor comprises:

an image sensing array, used for receiving said input
light and transferring said input light to sensing voltage;

a readout circuit, used for reading said sensing voltage
20 and outputting said sensing voltage as analog image signal;

a timing control circuit, used for controllin working
timing of said image sensing array and said readout circuit;
and

an analog to digital converter, used for receiving said
25 analog image signal and transferring said analog image

signal as said digital image signal.

14. The CMOS image sensor single chip integrated with a RF transmitter of claim 12, said CMOS image sensor comprises:

5 a linear image sensor, used for receiving said input light and transferring said input light to sensing voltage;

a readout circuit, used for reading said sensing voltage and outputting said sensing voltage as analog image signal;

a timing control circuit, used for controlling working
10 timing of said linear image sensor and said readout circuit;
and

an analog to digital converter, used for receiving said analog image signal and transferring said analog image signal as said digital image signal.

15 15. A CMOS image sensor single chip integrated with a RF transmitter, comprising:

a complementary metal oxide semiconductor(CMOS) image sensor, used for detecting an input light as digital image signal;

20 a signal processing unit, used for providing a basic timing to be working timing of said CMOS sensor, receiving said digital image signal to do basic processing, and transferring said digital image signal to application signal; and

25 a RF transmitter, used for modulating said applicaiton

signal to RF signal to be transmitted.

16. The CMOS image sensor single chip integrated with a RF transmitter of claim 15, said CMOS image sensor comprises:

5 an image sensing array, used for receiving said input light and transferring said input light to a sensing voltage;

a readout circuit, used for reading said sensing voltage and outputting said sensing voltage as a analog image signal; and

10 an analog to digital converter, used for receiving said analog image signal and transferring said analog image signal as said image signal.

17. The CMOS image sensor single chip integrated with a RF transmitter of claim 15, said CMOS image sensor

15 comprises:

a linear image sensor, used for receiving said input light and transferring said input light to a sensing voltage;

a readout circuit, used for reading said sensing voltage and outputting said sensing voltage as a analog image

20 signal; and

an analog to digital converter, used for receiving said analog image signal and transferring said analog image signal as said image signal.

18. The CMOS image sensor single chip integrated with
25 a RF transmitter of claim 15, wherein said digital

processing unit can further compress said digital image signal and transfer said digital image signal to a application signal.